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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,053	02/05/2004	Robert Steinfeld	P3223US1/APL1P300	4833
22434	7590 01/10/2006		EXAMINER	
BEYER WEAVER & THOMAS LLP			CARPIO, IVAN HERNAN	
P.O. BOX 70 OAKLAND,			PAPER NUMBER	
,			2841	
			DATE MAILED: 01/10/2000	5

Please find below and/or attached an Office communication concerning this application or proceeding.

			4		
	Application No.	Applicant(s)			
	10/774,053	STEINFELD ET AL.			
Office Action Summary	Examiner	Art Unit			
	Ivan H. Carpio	2841			
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tind will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on					
,— , — —	 is action is non-final.				
3) Since this application is in condition for allows		osecution as to the merits is			
closed in accordance with the practice under					
Disposition of Claims					
4)⊠ Claim(s) <u>1-31</u> is/are pending in the applicatio	n				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-31 are subject to restriction and/or	r election requirement.				
Application Papers					
9) The specification is objected to by the Examir	ner.				
10) \boxtimes The drawing(s) filed on $\underline{2}-\underline{5}-\underline{2004}$ is/are: a) \boxtimes		he Examiner.			
Applicant may not request that any objection to the	•				
Replacement drawing sheet(s) including the corre					
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreig a) ☐ All b) ☐ Some * c) ☐ None of:		ı)-(d) or (f).			
1. Certified copies of the priority documer					
2. Certified copies of the priority documer	• •				
 Copies of the certified copies of the pri application from the International Bure 		ed in this National Stage			
* See the attached detailed Office action for a lis	* **	ad			
See the attached detailed Office action for a lis	of the certified copies not receive	cu.			
Attachment(c)					
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	v (PTO-413)			
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 	Paper No(s)/Mail D 8) 5) Notice of Informal I				
Paper No(s)/Mail Date	6) [] Other:				

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1-25, drawn to an electrical mounting board, classified in class
 174, subclass 255.
- II. Claims 26-31, drawn to a method for configuring a circuit layout for an electrical mounting board, classified in class 29, subclass 825.

The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the electrical connection can be made by methods other than forming vias and filling them with conductive material, for example they can be formed by insulation displacement methods, or by establishing connection between the two layers by solder bumps and then backfilling the substrate in between the layers.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Art Unit: 2841

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, restriction for examination purposes as indicated is proper.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ivan H. Carpio whose telephone number is 571-272-8396. The examiner can normally be reached on M-R 6:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kammie Cuneo can be reached on 571-272-1957. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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